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* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	Apr 08	"Ask CAS" for self-help around the clock
NEWS	3	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS	4	Apr 09	ZDB will be removed from STN
NEWS	5	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS	6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS	7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS	8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS	9	Jun 03	New e-mail delivery for search results now available
NEWS	10	Jun 10	MEDLINE Reload
NEWS	11	Jun 10	PCTFULL has been reloaded
NEWS	12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS	13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS	14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS	15	Jul 30	NETFIRST to be removed from STN
NEWS	16	Aug 08	CANCERLIT reload
NEWS	17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	18	Aug 08	NTIS has been reloaded and enhanced
NEWS	19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS	21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS	22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	23	Sep 03	JAPIO has been reloaded and enhanced
NEWS	24	Sep 16	Experimental properties added to the REGISTRY file
NEWS	25	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	26	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	27	Oct 21	EVENTLINE has been reloaded
NEWS	28	Oct 24	BEILSTEIN adds new search fields
NEWS	29	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	30	Oct 25	MEDLINE SDI run of October 8, 2002
NEWS	31	Nov 18	DKILIT has been renamed APOLLIT
NEWS	32	Nov 25	More calculated properties added to REGISTRY
NEWS	33	Dec 02	TIBKAT will be removed from STN
NEWS	34	Dec 04	CSA files on STN
NEWS	35	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	36	Dec 17	TOXCENTER enhanced with additional content
NEWS	37	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	38	Dec 30	ISMEC no longer available
NEWS	39	Jan 13	Indexing added to some pre-1967 records in CA/CAPLUS
NEWS	40	Jan 21	NUTRACEUT offering one free connect hour in February 2003
NEWS	41	Jan 21	PHARMAML offering one free connect hour in February 2003
NEWS	42	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,
CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 13:20:06 ON 03 FEB 2003

=> fil reg

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FILE 'REGISTRY' ENTERED AT 13:20:15 ON 03 FEB 2003

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 2 FEB 2003 HIGHEST RN 484639-64-7

DICTIONARY FILE UPDATES: 2 FEB 2003 HIGHEST RN 484639-64-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNnote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> e perillyl alcohol/cn

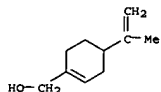
E1	1	PERILLUP KETOL/CN
E2	1	PERILLYL ACETATE/CN
E3	1 -->	PERILLYL ALCOHOL/CN
E4	1	PERILLYL ALCOHOL DEHYDROGENASE/CN
E5	1	PERILLYL ALDEHYDE/CN
E6	1	PERILLYL BROMIDE/CN
E7	1	PERILLYL CHLORIDE/CN
E8	1	PERILLYLACETALDEHYDE/CN
E9	1	PERIMARGIN/CN
E10	1	PERIMARGIN, HEXAHYDRO-/CN
E11	1	PERIMED/CN
E12	1	PERIMETAZINE/CN

=> s e3
L1

1 "PERILLYL ALCOHOL"/CN

=> d

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
 RN 536-59-4 REGISTRY
 CN 1-Cyclohexene-1-methanol, 4-(1-methylethenyl)- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN p-Mentha-1,8-dien-7-ol (7CI, 8CI)
 OTHER NAMES:
 CN dl-Perillyl alcohol
 CN Perilla alcohol
 CN Perillic alcohol
 CN Perillol
 CN Parillyl alcohol
 PS 3D CONCORD
 DR 7644-38-4, 1406-56-0, 66141-69-3
 MF C10 H16 O
 CI COM
 LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*,
 BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT,
 CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DRUGNL,
 DRUGU, DRUGUPDATES, EMBASE, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA,
 MEDLINE, NAPRALERT, PHAR, PROMT, RTECS*, SPECINFO, SYNTHLINE,
 TOXCENTER,
 USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

392 REFERENCES IN FILE CA (1962 TO DATE)
 5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 392 REFERENCES IN FILE CAPLUS (1962 TO DATE)
 10 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> fil .search		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	6.70	6.91

FILE 'MEDLINE' ENTERED AT 13:21:43 ON 03 FEB 2003

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FILE 'USPATFULL' ENTERED AT 13:21:43 ON 03 FEB 2003
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'EMBASE' ENTERED AT 13:21:43 ON 03 FEB 2003
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=> s l1
L2 679 L1

=> s l2 and (tumor? or tumour? or cancer? or sarcoma?)
L3 247 L2 AND (TUMOR? OR TUMOUR? OR CANCER? OR SARCOMA?)

=> s l3 and sensit?
L4 23 L3 AND SENSIT?

=> dup rem l4
PROCESSING COMPLETED FOR L4
L5 17 DUP REM L4 (6 DUPLICATES REMOVED)

=> d ibib ab 1-
YOU HAVE REQUESTED DATA FROM 17 ANSWERS - CONTINUE? Y/(N):y

L5 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 1
 ACCESSION NUMBER: 2002:736903 CAPLUS
 DOCUMENT NUMBER: 137:244075
 TITLE: Monoterpenes and sesquiterpenes as chemotherapeutic and radiation sensitizers and immunomodulators
 INVENTOR(S): Gould, Michael N.; Howard, Steven P.; Rajesh, Deepika
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 41 pp., Cont.-in-part of U.S. Ser. No. 878,797.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002137799	A1	20020926	US 2001-14724	20011107
US 2002054850	A1	20020509	US 2001-878797	20010611
PRIORITY APPLN. INFO.:			US 2000-246887P	P 20001108
			US 2001-878797	A2 20010611
			US 2000-211506P	P 20000614

AB A method of sensitizing tumor cells to radiation therapy, chemotherapy and immunomodulatory therapy, comprising the step of exposing the tumor cell to an effective amt. of at least one monoterpene or sesquiterpene and treating the tumor cell is disclosed.

L5 ANSWER 2 OF 17 USPATFULL
 ACCESSION NUMBER: 2002:243049 USPATFULL
 TITLE: Measurement of protective genes in allograft rejection
 INVENTOR(S): Avihingsanon, Yingyos, Boston, MA, UNITED STATES
 Ma, Nalli, Wircchester, MA, UNITED STATES
 Strom, Terry B., Brookline, MA, UNITED STATES
 Soares, Miguel C., Boston, MA, UNITED STATES
 Ferran, Christiane, Brookline, MA, UNITED STATES
 Suthanthiran, Manikkam, Scarsdale, NY, UNITED STATES

NUMBER	KIND	DATE
US 2002132235	A1	20020919
US 2001-777732	A1	20010206 (9)

NUMBER	DATE
US 2000-199327P	20000424 (60)

PRIORITY INFORMATION: US 2000-199327P 20000424 (60)
 DOCUMENT TYPE: Utility
 FILE SEGMENT: APPLICATION
 LEGAL REPRESENTATIVE: FOLEY, HOAG & ELIOT, LLP, PATENT GROUP, ONE POST OFFICE

SQUARE, BOSTON, MA, 02109
 NUMBER OF CLAIMS: 34
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 19 Drawing Page(s)
 LINE COUNT: 2820
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB The invention relates to methods of evaluating transplant rejection in a host comprising determining a heightened magnitude of gene expression of genes in rejection-associated gene clusters. The disclosed gene clusters include genes that are substantially co-expressed with cytotoxic lymphocyte pro-apoptotic genes, cytoprotective genes and several other cytokine and immune cell genes.

L5 ANSWER 3 OF 17 USPATFULL
 ACCESSION NUMBER: 2002:105649 USPATFULL
 TITLE: Monoterpenes and sesquiterpenes as chemotherapeutic sensitizers and radiation sensitizers
 INVENTOR(S): Gould, Michael N., Madison, WI, UNITED STATES
 Howard, Steven P., Madison, WI, UNITED STATES

NUMBER	KIND	DATE
US 2002054850	A1	20020509
US 2001-878797	A1	20010611 (9)

NUMBER	DATE
US 2000-211506P	20000614 (60)

PRIORITY INFORMATION: US 2000-211506P 20000614 (60)
 DOCUMENT TYPE: Utility
 FILE SEGMENT: APPLICATION
 LEGAL REPRESENTATIVE: QUARLES & BRADY LLP, 411 E. WISCONSIN AVENUE, SUITE 2040, MILWAUKEE, WI, 53202-4497

NUMBER OF CLAIMS: 16
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 14 Drawing Page(s)
 LINE COUNT: 475

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB A method of sensitizing tumor cells to radiation, comprising the step of exposing the tumor cell to an effective amount of at least one monoterpene or sesquiterpene and irradiating the tumor cell, is disclosed.

L5 ANSWER 4 OF 17 USPATFULL
 ACCESSION NUMBER: 2002:17248 USPATFULL
 TITLE: Treatment of hyperproliferative, inflammatory and related mucocutaneous disorders using inhibitors of mevalonate synthesis and metabolism
 INVENTOR(S): Parks, Thomas P., San Mateo, CA, UNITED STATES
 Grayson, Stephen, San Rafael, CA, UNITED STATES

NUMBER	KIND	DATE
US 2002010128	A1	20020124
US 2001-833384	A1	20010411 (9)

NUMBER	DATE
US 2000-197357P	20000413 (60)

PRIORITY INFORMATION: US 2000-197357P 20000413 (60)
 DOCUMENT TYPE: Utility
 FILE SEGMENT: APPLICATION
 LEGAL REPRESENTATIVE: TOWNSEND AND TOWNSEND AND CREW, TWO EMBARCADERO CENTER,

EIGHTH FLOOR, SAN FRANCISCO, CA, 94111-3834
 NUMBER OF CLAIMS: 47
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 11 Drawing Page(s)
 LINE COUNT: 1443

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB The present invention provides methods for treating a variety of hyperproliferative and inflammatory mucocutaneous disorders, including, basal cell carcinoma, squamous cell carcinoma, psoriasis and atopic dermatitis, as well as skin irritation and disorders associated with skin aging and skin photodamage using inhibitors of cholesterol metabolism. The present invention further relates to the discovery that the combined use of several inhibitors of cholesterol metabolism produces synergistic effects. Furthermore, the present invention is directed to the use of inhibitors of cholesterol metabolism as excipients to enhance the effects of antiinflammatory drugs.

LS ANSWER 5 OF 17 USPATFULL
 ACCESSION NUMBER: 2002:217302 USPATFULL
 TITLE: Method of suppressing tumor growth with combinations of isoprenoids and statins
 INVENTOR(S): Elson, Charles E., Madison, WI, United States
 PATENT ASSIGNEE(S): Wisconsin Alumni Research Foundation, Madison, WI, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6441029	B1	20020827
APPLICATION INFO.:	US 2000-587737		20000605 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-27546, filed on 23 Feb 1998, now patented, Pat. No. US 6133312		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-39790P	19970304 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Goldberg, Jerome D.	
LEGAL REPRESENTATIVE:	Quarles & Brady LLP	
NUMBER OF CLAIMS:	8	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 4 Drawing Page(s)	
LINE COUNT:	1066	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method of inhibiting the growth of tumor cells is disclosed. In one embodiment, this method comprises the step of exposing tumor cells to an effective amount of a composition comprising at least two compounds selected from the group consisting of tocotrienols, statins and ionones.

LS ANSWER 7 OF 17 USPATFULL
 ACCESSION NUMBER: 2001:229235 USPATFULL
 TITLE: METHOD FOR USING SOLUBLE CURCUMIN TO INHIBIT PHOSPHORYLASE KINASE IN INFLAMMATORY DISEASES
 INVENTOR(S): HEING, MADALENE C.Y., NORTHRIDGE, CA, United States

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001051184	A1	20011213
APPLICATION INFO.:	US 1999-315856	A1	19990520 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	ATTN: DAVID A. FARAH, M.D., SHELDON & MAK, 225 SOUTH LAKE AVENUE, SUITE 900, PASADENA, CA, 91101		
NUMBER OF CLAIMS:	115		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	13 Drawing Page(s)		
LINE COUNT:	4191		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The compound curcumin, derived from turmeric, inhibits phosphorylase kinase and, by doing so, exhibits a number of physiological effects related to the control of inflammation and cellular proliferation. However, curcumin is effective only when in solution. Curcumin is

almost completely insoluble in water or in oils, but is soluble in alcohols. Accordingly, a method for treating inflammation in a mammal comprising administering curcumin in a solution containing at least one alcohol to a mammal to detectably inhibit the activity of phosphorylase kinase in the blood of the mammal or in a tissue of the mammal. The alcohol is preferably ethanol, 1-propanol, or 2-propanol; most preferably, it is ethanol. Instead of curcumin, a curcumin derivative or curcuminoid can be administered. The method can further comprise the administration of at least one additional compound that can be (1) vitamin D.sub.3 and vitamin D.sub.3 analogues; (2) vitamin A, Vitamin A derivatives, and vitamin A analogues (3) a calmodulin inhibitor; (4) an anti-inflammatory drug; (5) a calcium channel blocker; (6) a H1 or H2 histamine blocker; (7) an antioxidant; (8) a polyphenolic compound; (9) a monoterpene; (10) genistein; (11) a soybean derived lectin; and (12) dehydrozingerone. Another aspect of the present invention is a pharmaceutical composition comprising curcumin, a curcuminoid, or a curcumin derivative in a solution containing at least one alcohol, at least one additional compound as described above, and a pharmaceutically acceptable carrier.

LS ANSWER 6 OF 17 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2001:923635 CAPLUS
 DOCUMENT NUMBER: 136:14013
 TITLE: Monoterpenes and sesquiterpenes as chemotherapeutic sensitizers and radiation sensitizers
 INVENTOR(S): Gould, Michael N.; Howard, Steven P.
 PATENT ASSIGNEE(S): Wisconsin Alumni Research Foundation, USA
 SOURCE: PCT Int. Appl., 35 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001095936	A2	20011220	WO 2001-US18824	20010612
WO 2001095936	A3	20020718		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, BG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 2000-211506P P 20000614

AB A method of sensitizing tumor cells to radiation, comprising the step of exposing the tumor cell to an effective amt. of at least one monoterpene or sesquiterpene and irradiating the tumor cell, is disclosed. Examples are given on inhibition of various tumor cells (glioma, glioblastoma, prostate tumor) by radiotherapy and radiosensitization with perillyl alc., limonene, L-carvone, menthol, citral, myrcene, and geranyl tiglate.

LS ANSWER 8 OF 17 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
 ACCESSION NUMBER: 2001244700 EMBASE
 TITLE: Prostate cancer chemoprevention agents exhibit selective activity against early stage prostate cancer cells.
 AUTHOR: Liu Y.Q.; Kyle E.; Patel S.; Housseau F.; Hakim F.; Lieberman R.; Pins M.; Blagosklonny M.V.; Bergan R.C.
 CORPORATE SOURCE: R.C. Bergan, Division of Hematology/Oncology, Northwestern University, Department of Medicine, 710 N. Fairbanks, Chicago, IL 60611-3008, United States
 SOURCE: Prostate Cancer and Prostatic Diseases, (2001) 4/2 (81-91).
 Refs: 55
 ISSN: 1365-7852 CODEN: PCPDFW
 COUNTRY: United Kingdom
 DOCUMENT TYPE: Journal; Article
 FILE SEGMENT: 016 Cancer
 028 Urology and Nephrology
 037 Drug Literature Index
 LANGUAGE: English
 SUMMARY LANGUAGE: English

AB Preclinical models for the identification of prostate cancer chemoprevention agents are lacking. Based upon the notion that clinically useful chemoprevention agents should exhibit selective activity against early stage disease, studies were undertaken to assess whether chemoprevention agents selectively inhibited the growth of early stage prostate cancer, as compared to late stage cancer. First, a series of cell and molecular studies were performed, which, when taken together, validated the use of a panel of prostate cell lines as a model of the different stages of carcinogenesis. Next, therapeutic responsiveness to ten different cytotoxic or chemoprevention agents was evaluated. Chemoprevention agents exhibited selective activity against normal and early transformed prostate tissue, whereas cytotoxic agents were non-specific. Selective activity against early versus advanced prostate cancer cells is identified as a potential screening method for chemoprevention agents.

L5 ANSWER 9 OF 17 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
 ACCESSION NUMBER: 2001293473 EMBASE
 TITLE: Toxicity myths - Essential oils and their carcinogenic potential.
 AUTHOR: Guba R.
 CORPORATE SOURCE: R. Guba, Centre for Aromatic Medicine, 100 Dight Street, Collingwood, Vic. 3066, Australia. esatherapeutics@ozemail.com.au
 SOURCE: International Journal of Aromatherapy, (2001) 11/2 (76-83).
 Refs: 47
 ISSN: 0962-4562 CODEN: IJARF5
 COUNTRY: United Kingdom
 DOCUMENT TYPE: Journal; General Review
 FILE SEGMENT: 016 Cancer
 052 Toxicology
 030 Pharmacology
 037 Drug Literature Index
 LANGUAGE: English
 SUMMARY LANGUAGE: English
 AB In my previous paper, 'Toxicity Myths - the Actual Risks of Essential Oil Use' (see IJA, volume 10, issues 1&2), I considered the common 'myths' regarding the safe use of essential oils. This included discussion of often-stated 'contraindications' regarding the use of various essential oils in the case of high and low blood pressure, concerns relative to kidney and liver damage, during pregnancy and more. This paper carries on to consider further 'myths' regarding the safe use of essential oils.
 this time relative to the supposed carcinogenic (capable of causing cancer) potential of some essential oils. COPYRIGHT. 2001 Harcourt Publishers Ltd.

L5 ANSWER 10 OF 17 USPATFULL
 ACCESSION NUMBER: 2000:138398 USPATFULL
 TITLE: Method of suppressing tumor growth with combinations of isoprenoids and statins
 INVENTOR(S): Elson, Charles E., Madison, WI, United States
 PATENT ASSIGNEE(S): Wisconsin Alumni Research Foundation, Madison, WI, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6133312		20001017
APPLICATION INFO.:	US 1998-27546		19980223 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-39790P	19970304 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Goldberg, Jerome D.	
LEGAL REPRESENTATIVE:	Quarles & Brady LLP	
NUMBER OF CLAIMS:	11	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Figure(s); 4 Drawing Page(s)	
LINE COUNT:	1104	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

AB A method of inhibiting the growth of tumor cells is disclosed. In one embodiment, this method comprises the step of exposing tumor cells to an effective amount of a composition comprising at least two compounds selected from the group consisting of tocotrienols, statins and ionones.

L5 ANSWER 11 OF 17 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 ACCESSION NUMBER: 1999:521319 BIOSIS
 DOCUMENT NUMBER: PREV199900521319
 TITLE: Perillyl alcohol selectively induces G0/G1 arrest and apoptosis in Bcr/Abl-transformed myeloid cell lines.
 AUTHOR(S): Sahin, M. B.; Perman, S. M.; Jenkins, G.; Clark, S. S. (1)
 CORPORATE SOURCE: (1) Dept of Human Oncology, University of Wisconsin, 600 Highland Ave, K4-432, Madison, WI, 53792 USA
 SOURCE: Leukemia (Basingstoke), (Oct., 1999) Vol. 13, No. 10, pp. 1581-1591.
 ISSN: 0887-6924.
 DOCUMENT TYPE: Article
 LANGUAGE: English
 SUMMARY LANGUAGE: English
 AB The Bcr/Abl tyrosine kinase that is expressed from the Philadelphia chromosome protects leukemia cells from apoptosis caused by removal of growth factors or by cytotoxic agents and ionizing irradiation. This resistance to apoptosis is associated with a Bcr/Abl-mediated G2/M delay. Therefore, inhibiting Bcr/Abl signaling pathways should block the ability of the Bcr/Abl kinase to protect cells from apoptosis. The monoterpenes, limonene and perillyl alcohol (POH) are new anticancer agents that selectively induce apoptosis in neoplastic cells of a variety of rodent carcinoma models. Since the potential antitumor activities of monoterpenes overlap with signaling pathways affected by the Bcr/Abl kinase, POH and limonene were tested for antileukemia activity. POH, but not limonene selectively induced G0/G1 arrest followed by apoptosis in Bcr/Abl-transformed, but not nontransformed FDC.P1 and 32D myeloid cell lines. In contrast to their greater sensitivity to POH, Bcr/Abl-transformed cells were more resistant than nontransformed cells to several chemotherapy agents and ionizing irradiation. Since in Bcr/Abl-transformed cells, POH induces apoptosis associated with G0/G1 arrest, POH must activate an apoptotic pathway that is not protected by the Bcr/Abl-induced G2/M delay. Monoterpenes may represent novel agents for treating Ph+ leukemias.

L5 ANSWER 12 OF 17 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
 ACCESSION NUMBER: 1999287490 EMBASE
 TITLE: Isoprenoid-mediated inhibition of mevalonate synthesis: Potential application to cancer.
 AUTHOR: Elson C.E.; Peffley D.M.; Hentosh P.; Mo H.
 CORPORATE SOURCE: C.E. Elson, Department of Nutritional Sciences, University of Wisconsin-Madison, 1415 Linden Drive, Madison, WI 53706.
 SOURCE: United States. elson@nutrisci.wisc.edu
 Proceedings of the Society for Experimental Biology and Medicine, (1999) 221/4 (294-311).
 Refs: 315
 ISSN: 0037-9727 CODEN: PSEBAA
 COUNTRY: United States
 DOCUMENT TYPE: Journal; (Short Survey)
 FILE SEGMENT: 016 Cancer
 030 Pharmacology
 037 Drug Literature Index
 LANGUAGE: English
 SUMMARY LANGUAGE: English

AB Pure and mixed isoprenoid end products of plant mevalonate metabolism trigger actions that suppress 3-hydroxy-3-methylglutaryl coenzyme A (HMG CoA) reductase activity. These actions modulate HMG CoA reductase mRNA translation and the proteolytic degradation of HMG CoA reductase. Such post-transcriptional events, we propose, are activated directly by acyclic isoprenoids and indirectly by cyclic isoprenoids. Isoprenoids, acting secondarily to the dominant transcriptional effector of sterogenesis, modestly lower cholesterol levels, if and only if, sterogenesis is not repressed by a saturating input of dietary cholesterol. An anomaly associated with tumor growth - a sterol feedback-resistant HMG CoA reductase activity - ensures a pool of sterogenic pathway intermediates. Such intermediates provide lipophilic anchors essential for membrane attachment and biological activity of growth hormone receptors, nuclear lamins A and B, and oncogenic ras. Tumor HMG CoA reductase retains high sensitivity to the isoprenoid-mediated secondary regulation. Repression of mevalonate synthesis by plant-derived isoprenoids reduces ras and lamin B processing, arrests cells in G1, and initiates cellular apoptosis. This unique tumor cell-specific sensitivity allows isoprenoids to be used for tumor therapy, an application emulating that of the statins, but one free of adverse effects. When evaluated at levels provided by a typical diet, isoprenoids individually have no impact on cholesterol synthesis and tumor growth. Nonetheless, isoprenoid-mediated activities are additive, and, sometimes synergistic. Therefore, the combined actions of the estimated 23,000 isoprenoid constituents of plant materials, acting in concert with other chemopreventive phytochemicals, may explain the lowered cancer risk associated with a diet rich in plant products. In contrast, that lowering of cancer risk does not correspond to supplemental intake of other dietary factors associated with fruits, vegetables, and cereal grains, namely fiber, beta-carotene, vitamin C, and vitamin E, and only weakly to supplemental folate.

L5 ANSWER 13 OF 17 MEDLINE MEDLINE DUPLICATE 2
 ACCESSION NUMBER: 1999042290 MEDLINE
 DOCUMENT NUMBER: 99042290 PubMed ID: 9824849
 TITLE: Monoterpenes inhibit cell growth, cell cycle progression, and cyclin D1 gene expression in human breast cancer cell lines.
 AUTHOR: Bardou S; Picard K; Martel P
 CORPORATE SOURCE: Laboratoire de Nutrition et Sécurité Alimentaire, Institut National de la Recherche Agronomique, Jouy-en-Josas, France.. bardon@diamant.jouy.inra.fr
 SOURCE: NUTRITION AND CANCER, (1998) 32 (1) 1-7.
 Journal code: 7905040. ISSN: 0163-5581.
 PUB. COUNTRY: United States
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 199902
 ENTRY DATE: Entered STN: 19990223
 Last Updated on STN: 19990223
 Entered Medline: 19990209

AB Monoterpenes are found in the essential oils of many commonly consumed fruits and vegetables. These compounds have been shown to exert chemopreventive and chemotherapeutic activities in mammary tumor models and represent a new class of breast cancer therapeutic agents. In this study, we investigated the effects of limonene and limonene-related monoterpenes, perillyl alcohol and perillallic acid, on cell growth, cell cycle progression, and expression of cyclin D1 cell cycle-regulatory gene in T-47D, MCF-7, and MDA-MB-231 breast cancer cell lines. Our results revealed that limonene-related monoterpenes caused a dose-dependent inhibition of cell proliferation. Of the three monoterpenes tested, perillyl alcohol was the most potent and limonene was the least potent inhibitor of cell growth. The enantiomeric composition of limonene and perillyl alcohol did not interfere with their effect on cell growth. Sensitivity of breast cancer cell lines to monoterpenes was in the following order: T-47D > MCF-7 > MDA-MB-231. Growth inhibition induced by perillyl alcohol and perillallic acid was associated with a fall in the proportion of cells in the S phase and an accumulation of cells in the G1 phase of the cell cycle. Finally, we showed that the effects of limonene-related monoterpenes on cell proliferation and cell cycle progression were preceded by a decrease in cyclin D1 mRNA levels.

L5 ANSWER 14 OF 17 MEDLINE MEDLINE DUPLICATE 3
 ACCESSION NUMBER: 97420659 MEDLINE
 DOCUMENT NUMBER: 97420659 PubMed ID: 9276644
 TITLE: Induction of the apoptosis-promoting protein Bak by perillyl alcohol in pancreatic ductal adenocarcinoma relative to untransformed ductal epithelial cells.
 AUTHOR: Stayrook K R; McKinzie J H; Burke Y D; Burke Y A; Crowell P
 CORPORATE SOURCE: L Department of Biology, Indiana University-Purdue University
 at Indianapolis, 46202, USA.
 CONTRACT NUMBER: CA64297 (NCI)
 SOURCE: CARCINOGENESIS, (1997 Aug) 18 (8) 1655-8.
 Journal code: 8008055. ISSN: 0143-3334.
 PUB. COUNTRY: ENGLAND: United Kingdom
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 199710
 ENTRY DATE: Entered STN: 19971024
 Last Updated on STN: 19971024
 Entered Medline: 19971014

AB Perillyl alcohol has antitumor activity toward pancreas and other cancers with low toxicity. Here, we have investigated the mechanism of action responsible for the differential sensitivity of malignant versus non-malignant pancreatic cells to the drug. We report that the rate of apoptosis is over 6-fold higher in perillyl alcohol-treated pancreatic adenocarcinoma cells than in untreated cells, and that the effect of perillyl alcohol on pancreatic tumor cells is significantly greater than its effect on non-malignant pancreatic ductal cells. Moreover, the perillyl alcohol-induced increase in apoptosis in all of the pancreatic tumor cells is associated with a 2- to 8-fold increase in the expression of the proapoptotic protein Bak, but expression is not affected by perillyl alcohol in non-malignant cells. Thus, the antitumor activity of perillyl alcohol toward pancreatic cancers may be due to preferential stimulation of Bak-induced apoptosis in malignant versus normal cells. Bak may, therefore, be a useful biomarker for the chemopreventive and therapeutic effects of perillyl alcohol.

L5 ANSWER 15 OF 17 USPATFULL USPATFULL
 ACCESSION NUMBER: 96:118614 USPATFULL
 TITLE: Regression of mammalian leukemia cell tumors
 INVENTOR(S): Gould, Michael N., Madison, WI, United States
 Crowell, Pamela L., Indianapolis, IN, United States
 Elson, Charles E., Madison, WI, United States
 Clark, Steven S., Madison, WI, United States
 PATENT ASSIGNEE(S): Wisconsin Alumni Research Foundation, Madison, WI, United States (U.S. corporation)

NUMBER	KIND	DATE
US 5587402		19961224
US 1995-434811		19950504 (8)

 RELATED APPL. INFO.: Continuation-in-part of Ser. No. US 1992-865561, filed on 9 Apr 1992, now patented, Pat. No. US 5414019
 DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Goldberg, Jerome D.
 LEGAL REPRESENTATIVE: Quarles & Brady
 NUMBER OF CLAIMS: 3
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 17 Drawing Figure(s); 17 Drawing Page(s)
 LINE COUNT: 580
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB A method for causing regression of a leukemia cell tumor is disclosed. This method comprises the step of administering perillyl alcohol to a tumor-containing mammal.

L5 ANSWER 16 OF 17 CAPIUS COPYRIGHT 2003 ACS DUPLICATE 4
 ACCESSION NUMBER: 1994:289616 CAPIUS
 DOCUMENT NUMBER: 120:289616
 TITLE: Growth inhibition of rat liver epithelial tumor cells by monoterpenes does not involve Ras plasma membrane association
 AUTHOR(S): Ruch, Randall J.; Sigler, Kristi
 CORPORATE SOURCE: Dep. Pathol., Med. Coll. Ohio, Toledo, OH, 43699, USA
 SOURCE: Carcinogenesis (1994). 15(4), 787-9
 CODEN: CRNGDP; ISSN: 0143-3334
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB In contrast, lovastatin, a potent inhibitor of 3-hydroxy-2-methylglutaryl CoA reductase and Ras farnesylation, specifically reduced WB-ras cell growth and increased cytosolic levels of Ras. Thus, monoterpene-induced growth inhibition of rat liver epithelial cells was dissimilar to lovastatin and did not appear to involve altered Ras plasma membrane assocn. The role of altered ras oncoprotein (Ras) farnesylation and membrane assocn. in the growth inhibitory effects of several monoterpenes (limonene, perillallic acid, perillyl alc., menthol, pinene and cineole) was investigated in rat liver epithelial cells. All of the above compds. except cineole inhibited the growth of viral Ha-ras-transformed rat liver epithelial cells (WB-ras cells) at concns. of 0.25-2.5 mM. These cells, however, were not necessarily more sensitive to these compds. compared to non-transformed and viral ras-transformed rat liver epithelial cells. Growth inhibition by limonene, perillallic acid and pinene was only partially restored (20-50%) by supplementing the culture medium with 2 mM mevalonic acid. Western blot analyses of cytosolic and membranous fractions of WB-ras cells treated with monoterpenes indicated no change in Ras distribution.

LS ANSWER 17 OF 17 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 ACCESSION NUMBER: 1994:304924 BIOSIS
 DOCUMENT NUMBER: PREV199497317924
 TITLE: The chemoprevention of cancer by mevalonate-derived constituents of fruits and vegetables.
 AUTHOR(S): Elson, Charles E. (1); Yu, Suzanne G.
 CORPORATE SOURCE: (1) Dep. Nutr. Sci., Univ. Wisconsin-Madison, Madison, WI 53706-1571 USA
 SOURCE: Journal of Nutrition, (1994) Vol. 124, No. 5, pp. 607-614.
 ISSN: 0022-3166.

DOCUMENT TYPE: General Review
 LANGUAGE: English

AB A nutritive isoprenoid constituents of fruits, vegetables, cereal grains and essential oils exhibit a spectrum of anticarcinogenic activities. The induction of hepatic Phase II detoxifying activities by dietary isoprenoids appears to underlie their blocking action. The second anticarcinogenic action of the dietary isoprenoids, suppression of the growth of chemically initiated and transplanted tumors is, we suggest, secondary to the inhibition of mevalonate pathway activities. Mevinolin, a competitive inhibitor of 3-hydroxy-3-methylglutaryl-coenzyme A (HMG-CoA) reductase activity, depletes cells of the intermediate products of the pathway that are required for the posttranslational modification of proteins, a process giving the proteins lipophilic anchors

that bind to membranes. As a consequence, nuclear lamins and ras oncoproteins remain in nascent states, and cells do not proliferate. gamma-Tocotrienol, perillyl alcohol, geraniol and d-limonene suppress hepatic HMG-CoA reductase activity, a ratelimiting step in cholesterol synthesis, and modestly lower serum-cholesterol levels of animals. These isoprenoids also suppress tumor growth. The HMG-CoA reductase of neoplastic tissues differs from that of sterologenic tissues in being markedly resistant to sterol feedback inhibition. Our review suggests

that the mevalonate pathway of tumor tissues is uniquely sensitive to the inhibitory actions of the dietary isoprenoids.